HAKINAKU HD08-G

HAKINAKU HD08-G 4-in-1 Carbon Monoxide & Natural Gas Detector Instruction Manual

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your HAKINAKU HD08-G 4-in-1 Carbon Monoxide and Natural Gas Detector. Please read this manual thoroughly before using the device to ensure safe and effective operation. Keep this manual for future reference.

The HAKINAKU HD08-G is designed to monitor carbon monoxide (CO), combustible gases (such as natural gas, propane, and methane), temperature, and humidity in your environment. It features a plug-in design with a built-in backup battery and a clear HD display.

2. IMPORTANT SAFETY INFORMATION

WARNING: This device is intended for residential use. It is not designed to detect smoke, fire, or other gases. It is not a substitute for a smoke detector. For maximum safety, ensure proper placement and regular testing.

2.1 Carbon Monoxide (CO) Hazard

Carbon monoxide is a colorless, odorless, and toxic gas. Mild CO poisoning can cause symptoms such as headaches, dizziness, nausea, and fatigue. High concentrations can lead to severe poisoning, unconsciousness, and death. This detector is designed to alert you to the presence of CO, but it is crucial to seek fresh air immediately if the alarm sounds and contact emergency services.

2.2 Combustible Gas Hazard

Natural gas and propane are colorless and odorless in their pure state. Odorants are added for detection, but a phenomenon called 'odor fade' can occur, reducing the smell. Combustible gases pose a risk of explosion and suffocation. If the gas alarm sounds, immediately ventilate the area, turn off gas sources, and evacuate. Do not operate electrical switches or phones from inside the affected area. Contact your gas provider or emergency services from a safe location.

3. PRODUCT OVERVIEW

3.1 Device Components

The HAKINAKU HD08-G detector features a compact design with a front display and rear plug. It includes three control buttons on the front panel.

Figure 1: Front and back view of the HAKINAKU HD08-G detector, illustrating the display panel and the integrated US plug.

3.2 Key Features

- **4-in-1 Detection:** Monitors Carbon Monoxide (CO), Combustible Gas (Natural Gas, Propane, Methane), Temperature, and Humidity.
- **Plug-in Design:** Compatible with 110-240V US outlets for easy installation.
- **Built-in Backup Battery:** 1000 mAh battery provides approximately 20 hours of operation during power outages.
- **2.1-inch HD Color Screen:** Provides clear, real-time display of all monitored parameters.
- **Audible and Visual Alarm:** 85 dB alarm and screen color changes alert users to hazardous conditions.
- **High Precision Sensors:** Ensures sensitive and stable detection performance.

4. SETUP AND INSTALLATION

4.1 Unpacking

Carefully remove the detector from its packaging. Verify that all components are present: the 4-in-1 detector unit and this instruction manual.

4.2 Powering On

Plug the detector directly into a standard 110-240V AC US wall outlet. The device will automatically power on and begin its self-test sequence. The built-in lithium polymer battery will charge when the device is plugged in, providing backup power in case of an outage.

Figure 2: The detector plugged into a standard wall outlet, ready for operation.

4.3 Placement Guidelines

Proper placement is crucial for effective detection. Consider the following:

- **Carbon Monoxide (CO):** CO is slightly lighter than air and mixes readily. Place the detector at chest height or higher, but not directly on the ceiling.

- **Combustible Gas (Natural Gas/Propane):** Natural gas is lighter than air, so place the detector higher on the wall, near the ceiling. Propane is heavier than air, so place the detector lower on the wall, near the floor. If monitoring both, a mid-height placement is often recommended, or consider multiple detectors.

- **General Placement:** Install in areas where gas appliances are present (e.g., kitchen, utility room, basement with furnace). Avoid placing near windows, doors, or vents where drafts could interfere with readings. Keep away from direct sunlight, high humidity areas, and areas with excessive dust or grease.

Figure 3: Recommended home harmful gas detecting placement guide.

5. OPERATION

5.1 Display Information

The 2.1-inch HD color screen provides real-time data:

- **CO PPM:** Carbon Monoxide concentration in parts per million.
- **GAS:** Combustible gas level, indicated by a color bar (green, yellow, orange, red).
- **Temperature:** Current ambient temperature in Fahrenheit or Celsius.
- **Humidity:** Current ambient humidity percentage.
- **Icons:** Speaker (buzzer status), Lightning bolt (charging status), Battery (battery level), Sun (brightness status).

Figure 4: Detailed view of the detector's HD display.

5.2 Button Functions

The detector has three buttons (H, O, D) on the front panel:

Figure 5: Button functions for the HAKINAKU HD08-G detector.

- **'O' Button (Center):**

- Short press: Initiates a self-test.
- Long press: Turns the device On/Off.

- **'H' Button (Left):**

  - Short press: Changes screen brightness level.

- **'D' Button (Right):**

  - Short press: Turns off the buzzer (mutes alarm).
  - Long press: Switches temperature unit between Celsius and Fahrenheit.

5.3 Alarm Indications

When hazardous levels of CO or combustible gas are detected, the device will activate both audible and visual alarms:

- **Audible Alarm:** A loud 85 dB siren will sound.
- **Visual Alarm:** The screen display will change color (e.g., red for high danger) and flash, indicating the type and level of detected gas.
- **CO Alarm Threshold:** The alarm will sound when CO concentration exceeds 50 ppm.
- **Combustible Gas Alarm Threshold:** The alarm will sound when combustible gas concentration exceeds the preset alarm level.

Figure 6: Intelligent power indicator light and alarm status.

6. TESTING THE DETECTOR

Regular testing ensures your detector is functioning correctly.

6.1 Self-Test

To perform a self-test, short press the 'O' button. The device will cycle through its alarm sequence (audible and visual) to confirm internal circuitry and sensor functionality. If the self-test fails, refer to the troubleshooting section.

6.2 CO Detection Test

To test CO detection, you can carefully expose the detector to a small amount of smoke from a burning paper or a smoky cigarette. The CO value on the screen should increase, and the alarm should sound. **Do not use car exhaust or burning gas in open areas for testing, as low CO values may not trigger the sensor and can be dangerous.**

6.3 Combustible Gas Detection Test

To test combustible gas detection, briefly expose the detector to a small, controlled amount of gas from a

lighter (without ignition) or a gas stove burner (without lighting). The gas bar icon should change color, and the alarm should sound. Exercise extreme caution during this test and ensure adequate ventilation immediately afterward.

Figure 7: Instructions for testing the CO and gas detection functions.

7. MAINTENANCE

7.1 Cleaning

Clean the detector regularly with a soft, damp cloth. Do not use harsh chemicals, abrasive cleaners, or solvents, as these can damage the device or interfere with sensor performance. Do not paint the detector or obstruct its ventilation openings.

7.2 Battery Backup

The detector includes a built-in 1000 mAh lithium polymer battery, providing approximately 20 hours of operation during power outages. This ensures continuous monitoring even when AC power is unavailable. The battery automatically recharges when the device is plugged into an active outlet.

Figure 8: The detector's built-in backup battery for continuous operation.

8. TROUBLESHOOTING

If you encounter issues with your HAKINAKU HD08-G detector, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not power on	No power from outlet; device off	Check outlet; long press 'O' button to turn on.
Alarm sounds without apparent gas	False alarm; presence of other volatile compounds; actual gas leak	Ventilate area; check for sources of fumes (e.g., cleaning products); evacuate and contact emergency services if suspected leak.
Screen is dim or off	Brightness setting; power saving mode	Short press 'H' button to adjust brightness.
Inaccurate temperature/humidity	Placement near heat/cold source; sensor calibration	Relocate device away from extreme temperatures; note that minor discrepancies can occur.

Problem	Possible Cause	Solution
Self-test fails	Internal malfunction	Contact customer support for assistance.

If the problem persists after attempting these solutions, please contact HAKINAKU customer support.

9. TECHNICAL SPECIFICATIONS

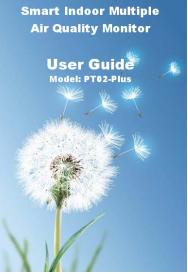| Feature	Specification
Brand	HAKINAKU
Model Number	HD08-G
Power Source	AC 110-240V
Backup Battery	1000 mAh Lithium Polymer (approx. 20h working time)
CO Detection Range	0-999 ppm
CO Alarm Threshold	>50 ppm
Combustible Gas Detection	Propane, Methane, Natural Gas
Alarm Loudness	85 dB
Display	2.1-inch HD Color Screen
Dimensions	2.04 x 1.3 x 3.34 inches
Weight	2.08 ounces
Material	ABS

10. WARRANTY AND SUPPORT

10.1 Warranty Information

HAKINAKU provides a 2-year free exchange warranty for any quality issues. Please retain your proof of purchase for warranty claims.

10.2 Customer Support

For technical assistance, warranty claims, or any questions regarding your HAKINAKU HD08-G detector, please contact HAKINAKU customer support through the retailer's platform or the contact information provided with your purchase.

Related Documents - HD08-G

	[HAKINAKU HD09 Carbon Monoxide Detector User Manual](#) User manual for the HAKINAKU HD09 Carbon Monoxide Detector. Learn about its features, specifications, operating instructions, and safety precautions for accurate CO monitoring.
	[User Manual for Carbon Monoxide Detector Model D6](#) This user manual provides instructions and specifications for the Model D6 Carbon Monoxide Detector. Learn how to operate the device, understand CO concentration indicators, and view product specifications and safety precautions.
	[Smart Indoor Air Quality Monitor User Guide - Model PT02-Plus](#) User guide for the PT02-Plus Smart Indoor Air Quality Monitor, detailing setup, manual settings, Tuya app integration, and smart scene creation for controlling air quality and connected devices.
	[Gedsffati HD08-G Combined Gas & Carbon Monoxide Detector User Manual](#) User manual for the Gedsffati HD08-G Combined Gas and Carbon Monoxide Detector. Provides instructions on operation, alarm functions, technical specifications, and safety precautions for monitoring air quality.
	[Gedsffati HD08-G Combined Gas & Carbon Monoxide Detector User Manual](#) The Gedsffati HD08-G is a combined gas and carbon monoxide detector designed for home safety. It features a digital display showing CO and combustible gas concentrations, temperature, and humidity. The device provides audible and visual alarms for dangerous gas levels and includes user-friendly controls for temperature unit switching, buzzer activation, and screen brightness adjustment. This manual provides detailed instructions, technical specifications, and safety precautions for optimal use.
	[HD08-G Combined Combustible Gas and Carbon Monoxide Detector User Manual](#) Comprehensive user manual for the HD08-G detector, covering setup, operation, technical specifications, safety precautions, and warranty information for combustible gas and carbon monoxide detection.